

IN THE CLAIMS

Please amend the claims as follows:

1. (currently amended) An illumination system for illuminating a display device, comprising: a light-emitting panel and a light source for coupling light into the light-emitting panel , said light source including a low-pressure mercury-vapor discharge lamp having, in normal operation, a fixed electromagnetic spectrum characterized in that the light source further comprises a plurality of light-emitting diodes for selectively setting, in operation, the color temperature of the light emitted by the light source.

2. (previously amended) An illumination system as claimed in claim 1, characterized in that the light-emitting diodes produce a light emission wavelength for selectively increasing the color temperature of the light emitted by the light source.

3. (original) An illumination system as claimed in claim 2, characterized in that the color temperature of the light emitted by the light source can be set so as to range from 6,000 K to 11,000 K.

4. (previously amended) An illumination system as claimed in claim 1, characterized in that the light-emitting diodes produce a predominantly blue light emission wavelength.

5. (currently amended) An illumination system as claimed in claim 1, characterized in that each one of the light-emitting diodes ~~produces a luminous flux of at least 5 lm~~ and the low-pressure discharge lamp directly transmit their light to the light-emitting panel.

6. (previously amended) An illumination system as claimed in claim 1, characterized in that the illumination system comprises control electronics for changing the luminous flux of the light-emitting diodes.

7. (previously amended) A display device comprising: a liquid crystal display device optically coupled to an illumination system as claimed in claim 1.

Please add the following new claims:

8. (currently amended) An illumination system for illuminating a display device, comprising:

a light-emitting panel, and

a light source arranged to ~~coupled~~ couple light from the light source into the light-emitting panel, wherein the light source comprises;

at least one electric discharge lamp having, in normal operation, a fixed electromagnetic spectrum, and

at least one light emitting diode chosen so as to set the color temperature of the light emitted by the light source independently of ~~the physical structure of~~ a display device illuminated by the light source.

9. (currently amended) ~~The~~ An illumination system as claimed in claim 8 for illuminating a display device, comprising:

a light-emitting panel, and

a light source arranged to couple light from the light source into the light-emitting panel, wherein the light source comprises;

at least one electric discharge lamp, and

at least one light emitting diode chosen so as to set the color temperature of the light emitted by the light source, wherein said at least one light emitting diode has a light emission wavelength ~~that is higher than~~ relative to the light emission wavelength of the electric discharge lamp, ~~thereby~~ so as to set the color temperature of the light emitted by the light source to a level above that of the discharge lamp alone.

10. (previously presented) The illumination system as claimed in claim 8 wherein the at least one electric discharge lamp includes

first and second electric discharge lamps physically separated from one another.

11. (previously presented) The illumination system as claimed in claim 8 wherein the at least one light emitting diode provides light at a predominantly blue light emission wavelength.

12. (previously presented) The illumination system as claimed in claim 8 further comprising control electronics for selectively setting the luminous flux of the at least one light emitting diode dependant upon the color temperature of the ambient light, or under control by a user of the illumination system.

13. (previously presented) The illumination system as claimed in claim 8 wherein the at least one electric discharge lamp comprises first and second low pressure mercury vapor discharge lamps located at opposite sides of the light emitting panel and the at least one light emitting diode comprises at least first and second light emitting diodes also located at opposite sides of the light emitting panel.

14. (currently amended) The illumination system as claimed in claim 8 further comprising control electronics for selectively ~~setting~~ adjusting, during normal operation of the illumination system, the

luminous flux of the at least one light emitting diode ~~and/or the~~
~~luminous flux of the at least one electric discharge lamp dependant~~
dependent upon the illumination level of an image displayed by the
display device.

15. (cancelled)

16. (previously presented) The illumination system as claimed in
claim 8 wherein the light emitting panel includes a light-mixing
chamber housing the at least one electric discharge lamp and a
micro-grooved bar into which light from the at least one light
emitting diode is coupled and in turn emitted by the micro-grooved
bar into the light emitting panel.

17. (previously presented) The illumination system as claimed in
claim 8 wherein the at least one electric discharge lamp includes
first and second electric discharge lamps and the at least one light
emitting diode comprises at least first and second light emitting
diodes, and

the light emitting panel includes first and second light-
mixing chambers housing the first and second electric discharge
lamps, respectively, and

the first and second light emitting diodes contact the first and second light-mixing chambers, respectively, so as to project their light into the light-emitting panel.

18. (previously presented) The illumination system as claimed in claim 8 wherein the at least one electric discharge lamp includes only one single low pressure mercury vapor discharge lamp.